

Specifications for 6x6 Firefighting All Terrain Vehicle

Gasoline powered, 6x6, all terrain vehicle, crew cab (4 passengers), with integrated firefighting skid

GENERAL INFORMATION

Length:	137 in. / 348 cm
Width (cargo box):	60 in. / 152.4
Width (tires)	58 in. / 147.3 cm
Height:	76 in. / 193 cm
Wheel Base:	105 in. / 267 cm
Ground clearance:	12 in. / 30.5 cm
Turning radius:	243 in. / 617 cm
Dry weight:	1551 lbs. / 703.5 kg
Gross vehicle weight:	3701 lbs. / 1679 kg
Storage box capacity:	250 lbs. / 113 kg
Cargo box capacity:	1250 lbs. / 567 kg
Cargo box dimensions:	42.5 x 54 x 11.5 in / 108 x 137 x 29 cm
Vehicle payload (includes weight of passengers, cargo, and accessories)	2000 lbs / 907 kg
Receiver type:	Standard 2 in receiver
Hitch towing capacity:	2000 lbs / 907 kg
Hitch tongue capacity:	150 lbs / 68 kg
Color:	Red (firefighting model color)

ENGINE

Platform:	Gasoline, domestic twin cylinder, liquid cooled, 4-stroke, electronic fuel injection (EFI), 40 HP
Engine Displacement:	760 cc High Output (H.O.)
Number of cylinders:	2
Bore and stroke (mm):	80 x 76.5 mm
Compression ratio:	9.78:1
Compression pressure:	165 – 185 psi
Engine idle speed:	1250 + or – 100 RPM
Lubrication:	Pressurized wet sump
Oil requirements:	PS-4 plus
Oil capacity:	2 US quarts (1.9 L)
Coolant capacity:	3.25 US quarts (3.08 L)
Overheat warning:	Instrument cluster indicator
Exhaust system:	2 in 1 canister style

FUEL SYSTEM

Fuel system type:	Bosch M17 EFI or equivalent
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Fuel delivery :	Electronic fuel pump (in tank)
Fuel pressure:	45 + or – 2 psi (310 +or – 14 kPa)
Fuel capacity:	9 US gallons (34 L)
Fuel requirement:	87 Octane minimum

ELECTRICAL

Alternator maximum output:	500 watts @ 3000 rpm
Headlights:	2 – halogen: Low 55W / High 60W
Tail lights:	0,3 watts / L.E.D. x 2
Brake lights:	3.1 watts / L.E.D. x 2
Starting system:	Electric start
Ignition system:	Bosch M17 (ECU controlled) or equivalent
Ignition timing:	Variable; 3 – 10 degree BTDC @ 1200 rpm
Spark plug / Gap:	RC7YC3 / .035 in. (0.9 mm) or equivalent
Battery / Model / Amp Hr.:	Yuasa YB30L-B / 30 amp hr / 12 volt or equivalent
Instrumentation:	Multifunction instrument cluster
DC outlets:	(2) – front; (1) – rear
Relays:	Chassis / ECM / Fan / Fuel pump / EPS / Rear Diff
Circuit breaker:	Fan motor: 20 amp
Fuses:	Lights: 20 amp
	ECM: 20 amp
	Drive: 20 amp
	EPS: 30 amp
	Accessory: 20 amp
	Fuel pump: 10 amp
Instrumentation:	Dash mounted: digital gauge, speedometer, odometer, tachometer, tripmeter, hour meter, clock, gear indicator, fuel gauge, high temp / low-battery lights, DC outlets (2)

DRIVE TRAIN

Drive system:	On demand true 6WD / Rear 4wd / Mid-differential lock or equivalent
Transmission type:	Automatic PVT
Shift type:	In line shift – H / L / N / R
Transmission Gear Reduction:	
High	3.85:1
Low	8.71:1
Reverse	7.91:1
Drive ratio:	Front: 3.818:1; Rear: 3.70:1
Front Gearcase	
Lubricant Requirements:	Demand Drive Plus 9 oz. (265 ml)
Transmission	
Lubricant Requirements:	AGL Plus 43.6 oz. (1290 ml)

Mid Gearcase	
Lubricant Requirements:	ATV Angle Drive Fluid 6.75 oz (200 ml)
Rear Gearcase	
Lubricant Requirements:	ATV Angel Drive Fluid 18 oz (532 ml)
Clutch type:	Standard PVT
Clutch center distance:	10.05" (255 mm)

STEERING / SUSPENSION

Steering type:	Standard non-electronic power steering
Toe out:	1/8 in. – ¼ in. (3.2 – 6.35 mm)
Front suspension:	Dual A-arm
Front travel:	9.6 in. (24.4 cm)
Rear suspension:	Independent (IRS)
Rear travel:	9 in. (22.9 cm)
Shock preload adjustment:	Cam adjustment

WHEELS / BRAKES

Front wheel size / Type:	12 x 6 / Steel
Rear wheel size / Type:	12 x 8 Steel
Front tire size:	25 x 10 R12
Front tire make / model:	Carlisle / AT489
Rear tire size:	25 x 11 R12
Rear tire make / model:	Carlisle / AT489
Tire air pressure:	Front: 8-12 psi (69 kPa)
Brake system type:	4 wheel hydraulic disc with dual-bore front and rear calipers
Brake fluid type:	DOT 4
Parking brake:	Hand actuated (in dash)

ADDITIONAL REQUIRED FOR 6X6 ATV

Crew steel cab roof
 Back up alarm
 Auxiliary task lights: Front: 2 – L.E.D.; Rear: 2 – L.E.D.; with dash mounted on/off switch
 HD steel powder coated rear bumper
 HD front steel powder coated brush guard, wrap around style, tall design to protect hood and headlights, auxiliary light mounts for optional lights

6x6 ATV FIRE RESCUE SLIP-IN UNIT

Unit dry weight:	517 lbs
Weight with fluids:	1,345 lbs

Crated weight:	1,138 lbs
Crated dimensions:	91" x 57" x 56"
Unit color:	Red
Material:	Standard

Additional Requirements for Fire Rescue Unit

Must be made to fit the 6x6 ATV
95 US gallon Copoly tank with integral 5 US gallon foam cell
RKO Quick Quench foam system or equivalent
Darley-Davey high performance fire pump system
9HP Honda electric start pump
Pump performance requirements: 120 gpm @ 53 psi; 60 gpm @ 105 psi; 20 gpm @ 126 psi
Must be capable of drafting to 19 feet or more from any body of water
RKO stainless steel piping with lifetime warranty or equivalent
Hannay hose reel with 70 feet of 3/4" red booster hose
1" forestry nozzle on red booster hose (above)
Discharge pressure gauge
Piping to include 1-1/2" discharge; 1" discharge; 1" recirc-fill 1" to hose reel
RKO -Junkin rescue system or equivalent
All mounting hardware included